

07-06-'04 13:50 FROM-Lerner & Greenberg +9549251101
Appl. No. 09/767,383
Amdt. dated July 6, 2004
Reply to Office action of April 7, 2004

T-681 P02/11 U-083

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A circuit configuration for controlling the transmitting power of a battery-operated transceiver, the circuit configuration comprising:

a battery for providing a supply voltage;

a power stage for controllable amplification of a radio-frequency signal, said power stage having a gain;

a comparison device, said comparison device having an input side for receiving a reference signal and a signal coupled to the supply voltage, and said comparison device having an output side for supplying a difference signal, said comparison device:

outputting the difference signal with a zero-amplitude,
when an amplitude of the signal coupled to the supply
voltage is above an amplitude of the reference signal;

outputting the difference signal with an amplitude
different from the zero-amplitude of the difference

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signal in the positive direction, when the amplitude of
the signal coupled to the supply voltage lies below the
amplitude of the reference signal;

a control device for controlling the gain of said power stage
in dependence on the difference signal; and

a digitally operating functional unit supplied by the supply
voltage, said functional unit generating a switching-off
signal in dependence on the supply voltage for switching off
the transceiver.

Claim 2 (original). The circuit configuration according to
claim 1, wherein said control device includes a logic element
for generating a difference between the difference signal and
a further reference signal, said logic element having an
output for supplying a control signal to be supplied to said
power stage for controlling the gain of said power stage.

Claim 3 (original). The circuit configuration according to
claim 1, including a voltage divider having an input side
connected between terminals for the supply voltage and an
output side connected to an input of said comparison device.

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Claim 4 (original). The circuit configuration according to claim 2, wherein said control device includes a measuring device for measuring power of a signal output by said power stage and a further comparison device, said further comparison device having an input side coupled to an output of said measuring device and to the output of said logic element, and said further comparison device having an output side for supplying the control signal for controlling power of said power stage.

Claim 5 (original). The circuit configuration according to claim 4, wherein said measuring device includes a directional coupler having a coupling element coupled to an output of said power stage, an element connected to said coupling element for detecting a radio-frequency amplitude, and a resistor connected between said coupling element and an input of said further comparison device.

Claim 6 (original). The circuit configuration according to claim 5, wherein said coupling element detects a wave moving away from said power stage and has a gate, and said element detecting the radio-frequency amplitude is a Schottky diode connected to the gate of said coupling element.

Claim 7 (canceled).

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Claim 8 (previously presented). A circuit configuration for controlling the transmitting power of a battery-operated transceiver in a mobile telephone for operation in a cellular telephone network, the circuit configuration comprising:

a battery for providing a supply voltage;

a power stage for controllable amplification of a radio-frequency signal, said power stage having a gain;

a comparison device, said comparison device having an input side for receiving a reference signal and a signal coupled to the supply voltage, and said comparison device having an output side for supplying a difference signal, said comparison device:

outputting the difference signal with a zero-amplitude,
when an amplitude of the signal coupled to the supply
voltage is above an amplitude of the reference signal;

outputting the difference signal with an amplitude
different from the zero-amplitude of the difference
signal in the positive direction, when the amplitude of
the signal coupled to the supply voltage lies below the
amplitude of the reference signal;

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a control device for controlling the gain of said power stage
in dependence on the difference signal; and

a digitally operating functional unit supplied by the supply
voltage, said functional unit generating a switching-off
signal in dependence on the supply voltage for switching off
the transceiver.